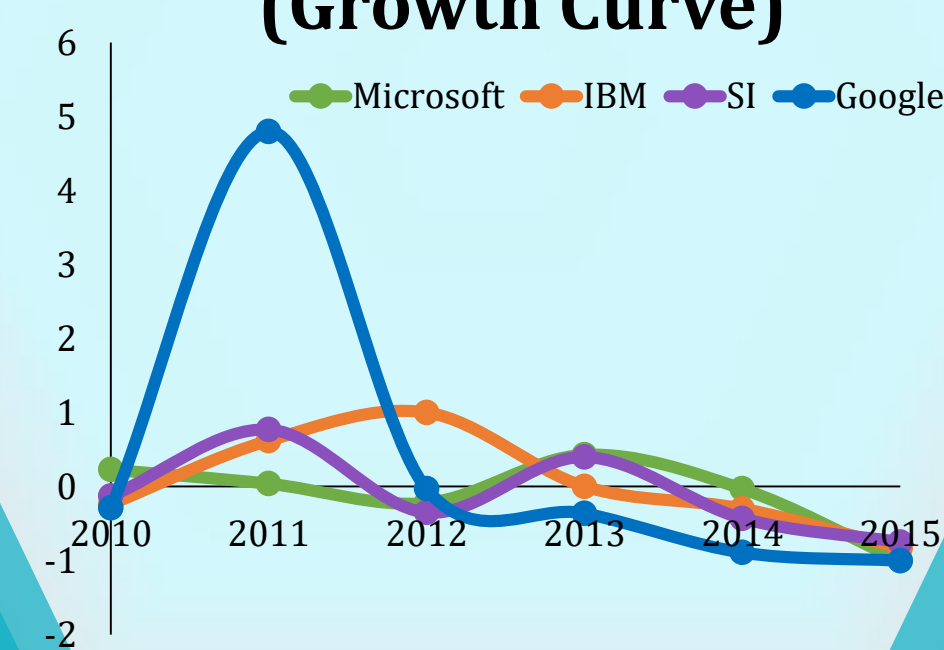


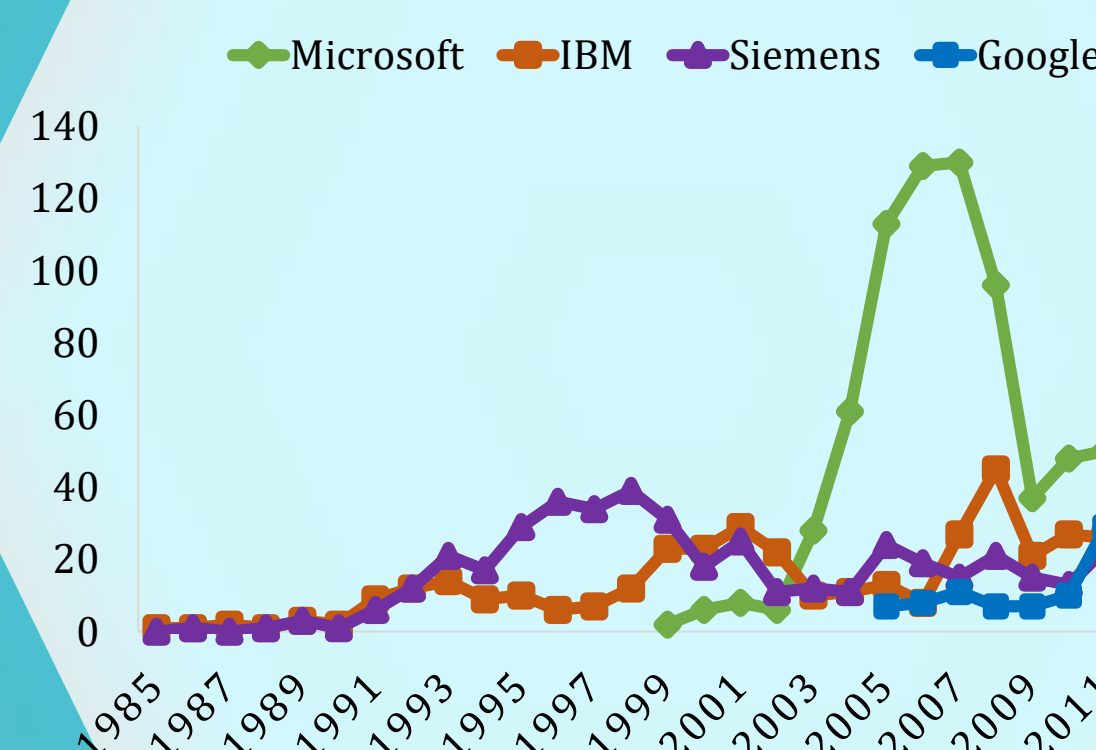
Abstract

Artificial Intelligence (AI) the science and engineering of making intelligent machines which can simulate themselves. Human self-reference happens any time when we say 'I'. Artificial Intelligence is immensely capable of questioning this human 'Self-awareness' by replicating the human potential to think, sense and also to make decisions in any knowledge field. Technological giants like Microsoft, IBM, Google & Siemens lead their way in AI by focusing on technologies viz; neural networks, machine learning, predictive models, information and communication technology (ICT) medical and healthcare. As there is gradual increase in the use of automated inventions, patent fillings on AI has raised, leading to a competition between technological giants. This scenario has motivated us to explore the competitive trends in AI. Insights from technology trends, growth analysis, firms activity analysis, legal scenario, collaboration network analysis, forward citations and country coverage of the patent data suggest that Microsoft might continue its lead in the succeeding years.

Influence of acquisitions (Growth Curve)



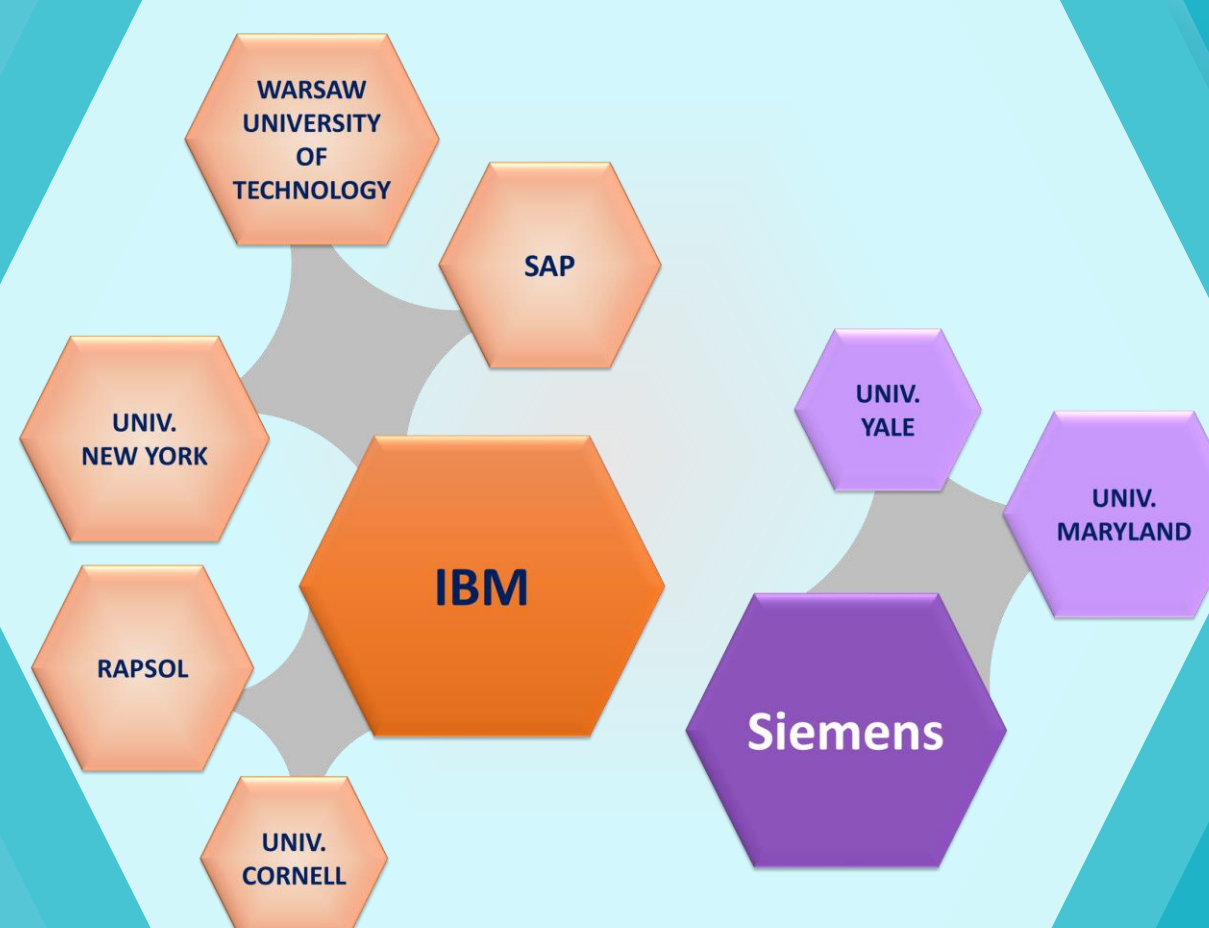
When it started..!!



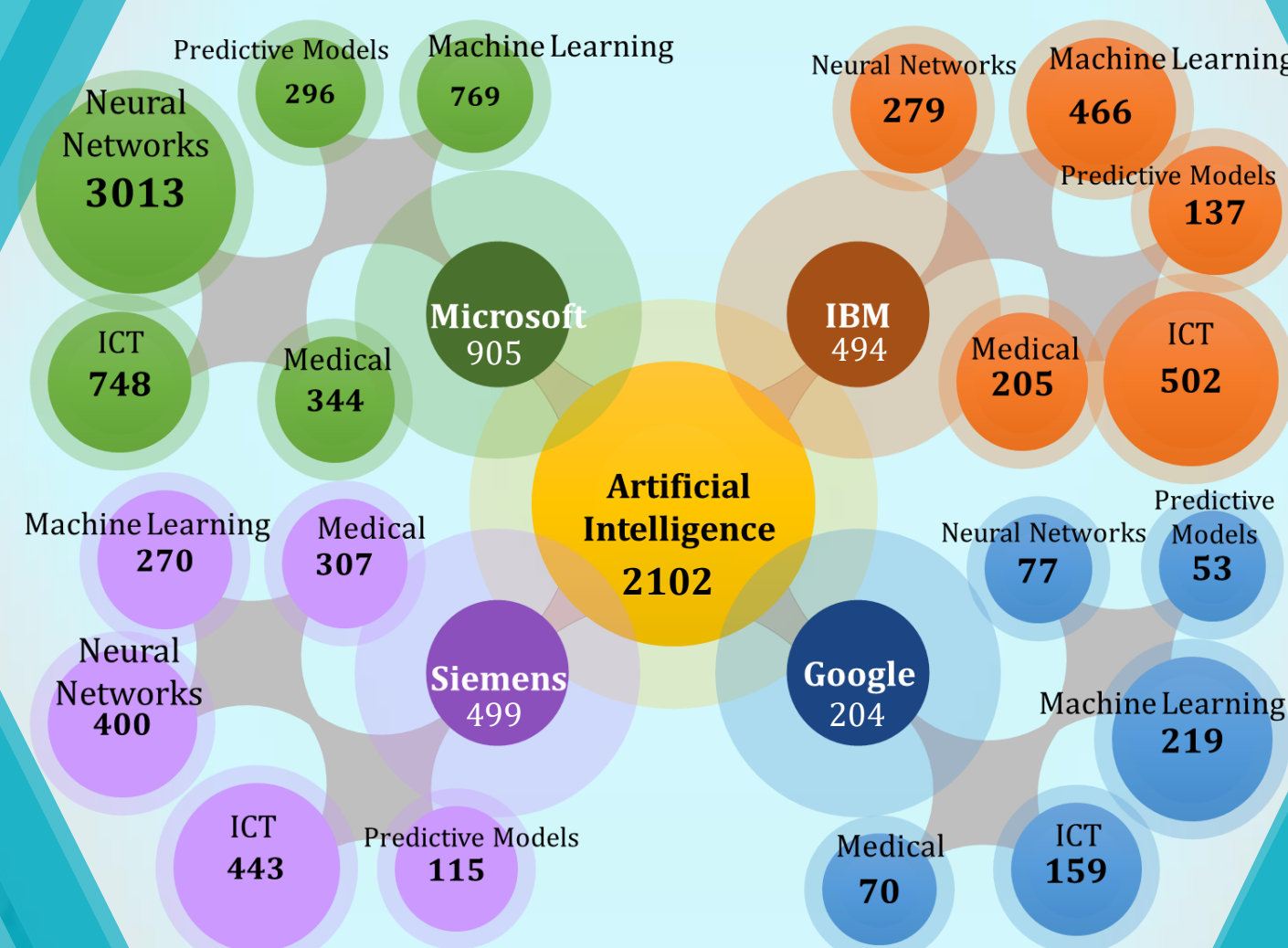
Mergers and Acquisitions



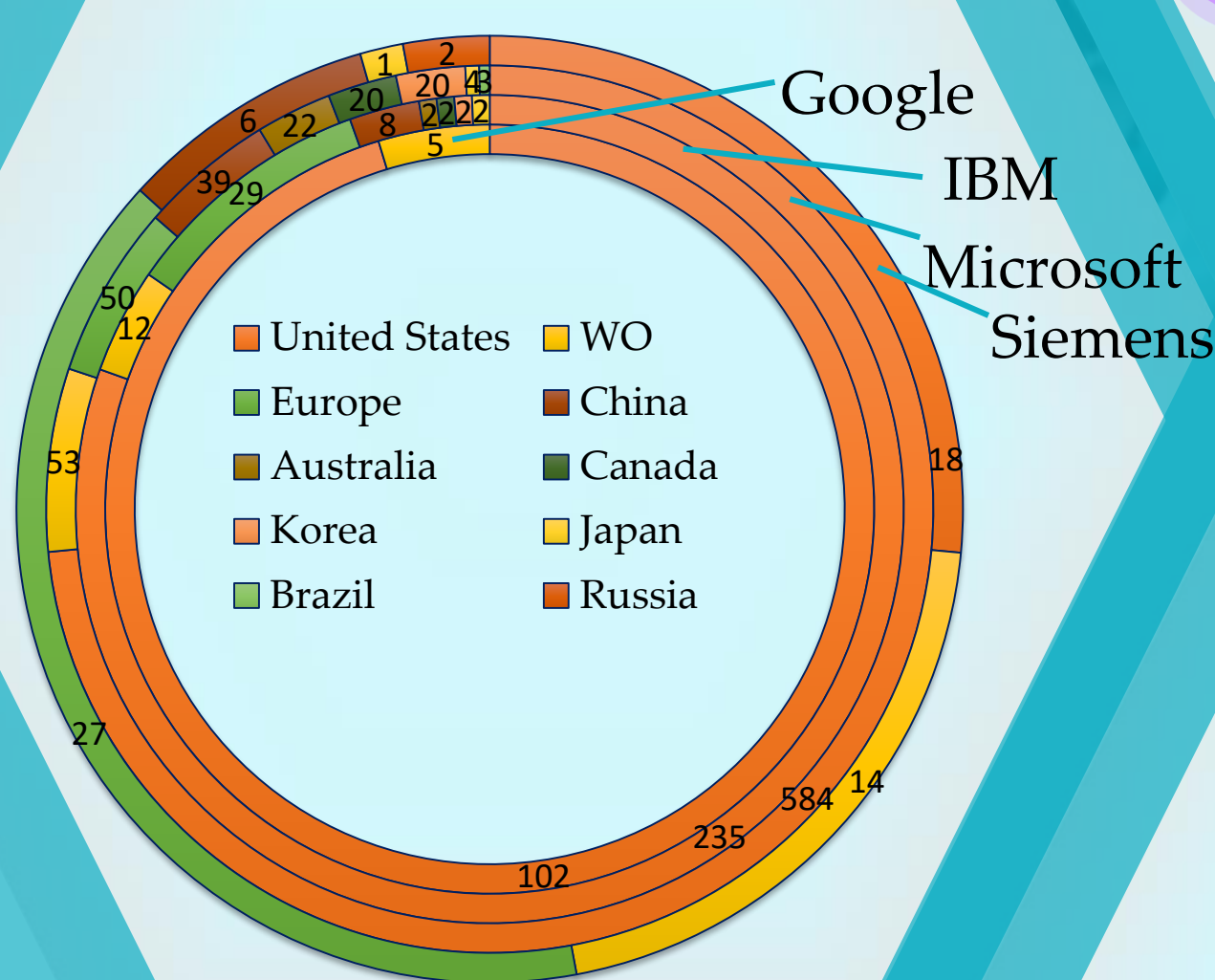
Collaboration Network



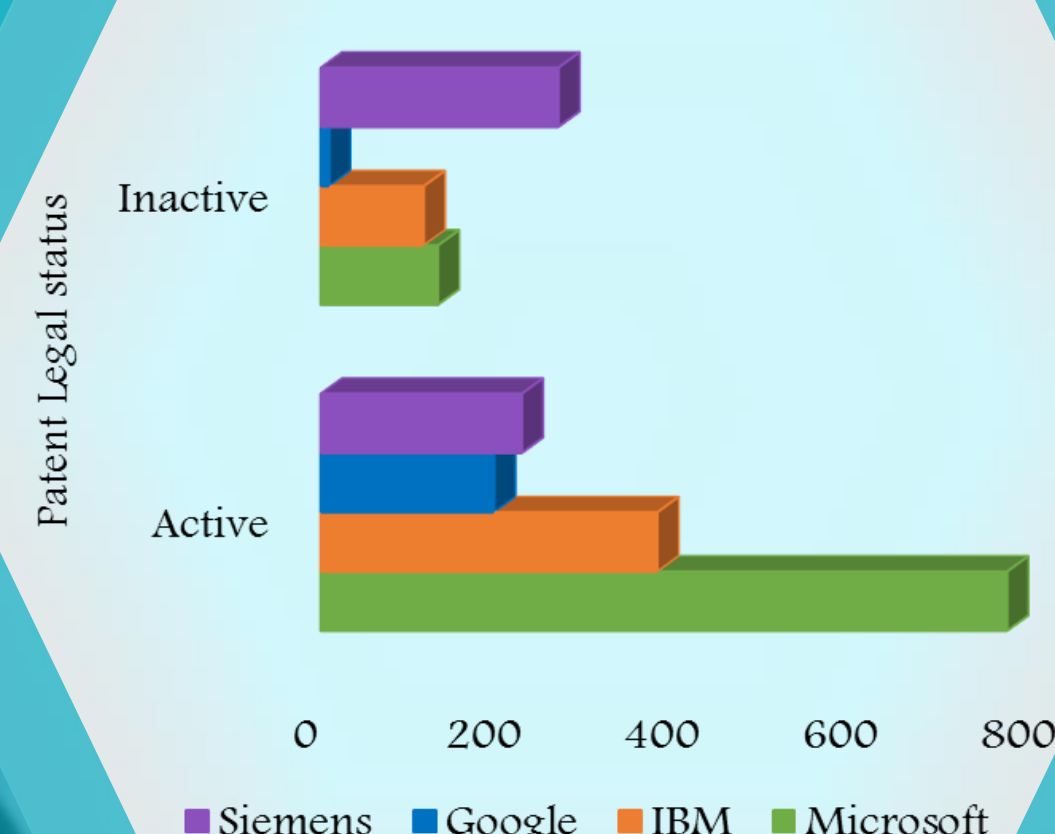
Technology Clusters



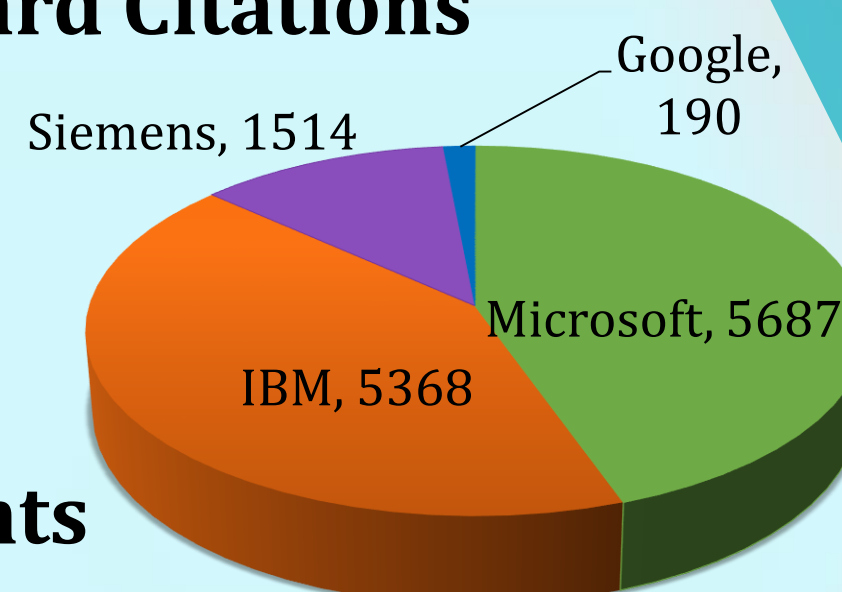
Country Coverage



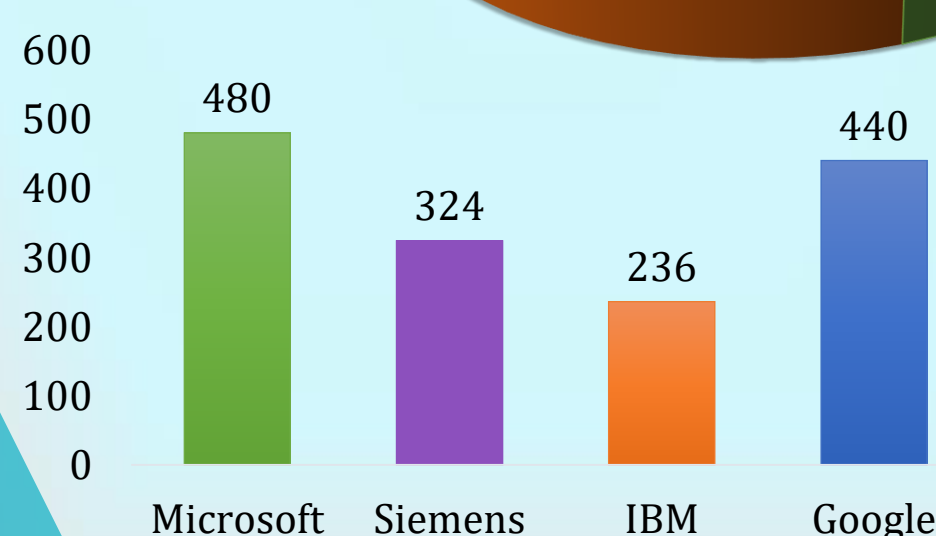
Legal Framework



Forward Citations



Claim Counts



Insights

- ➔ Google has started its journey late in AI but used Acquisition strategy and turned out to be a vital competitor to other giants in AI.
- ➔ As Microsoft is the leader in AI, the same domination has been reflected in filling trends, Country coverage, Claim counts & Legal scenario.
- ➔ Collaboration network analysis suggest that IBM had more collaborations in comparison with the other leading companies.
- ➔ Growth curve map shows the race between the giants where Google surpassed the prominent assignees from the year 2010.